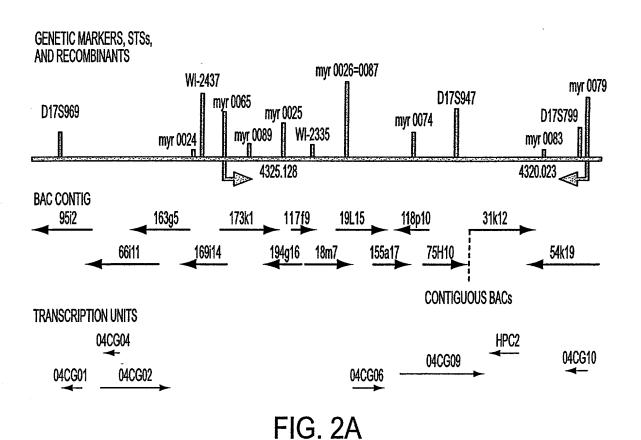


FIG. 1



BAC 31k12 WITH 2 EXONS OF 04CG09 AND THE HPC2 TRANSCRIPTION UNIT

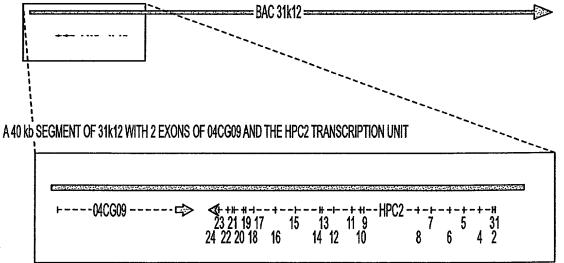


FIG. 2B

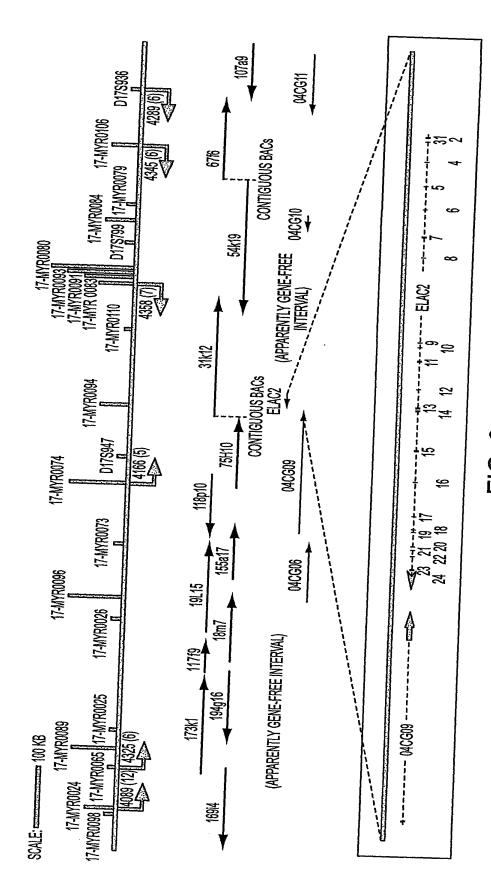


FIG. 3

Sean V. TAVTIGIAN et al. Serial No. New -Div. of 09/564,805 CHROMOSOME 17p-LINKED PROSTRATE CANCER...

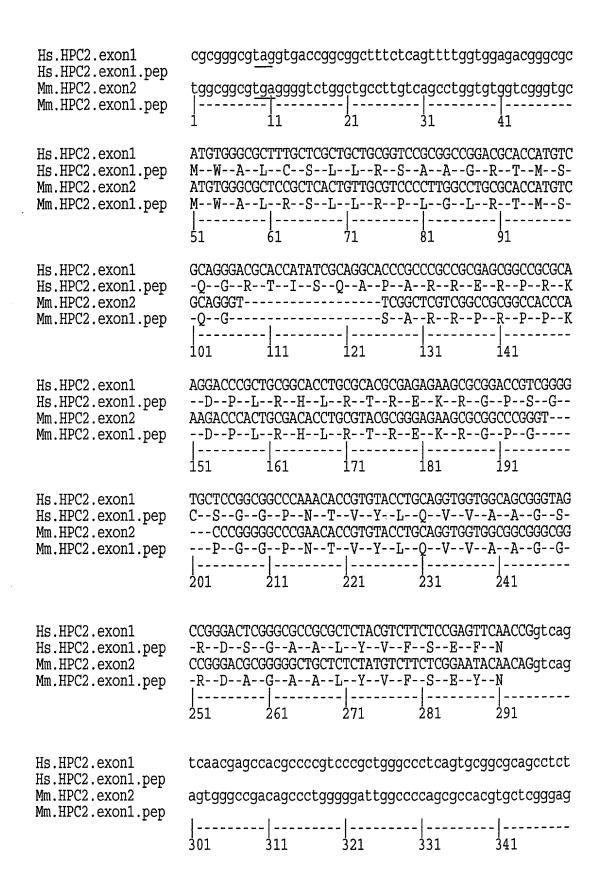
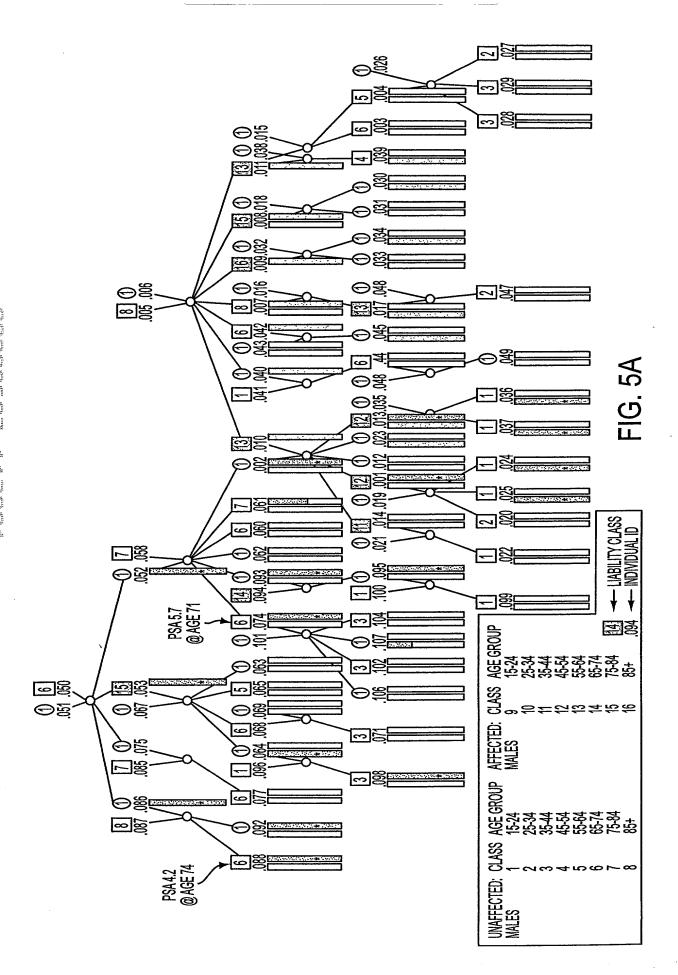
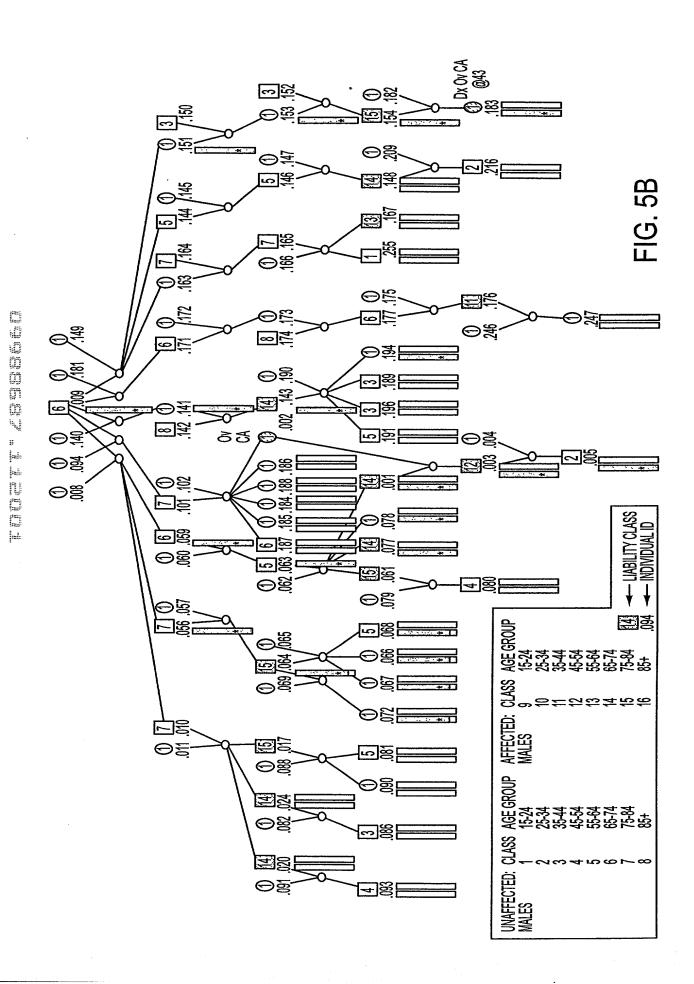


FIG. 4





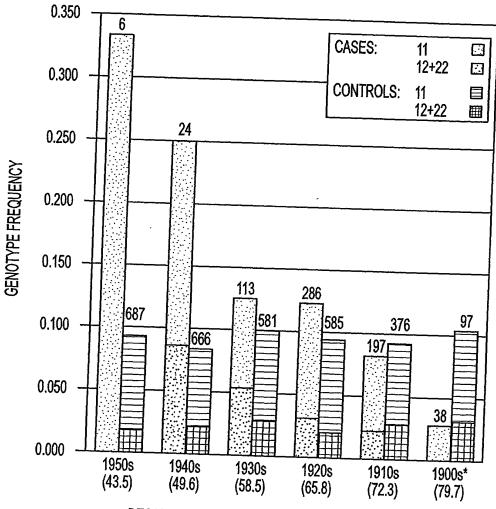
MWALCSLLRSAAGRTMSQGRTISQAPARRERPRDPLRHLRTREKRGPSGCSGGPNTVYEOWVA MWALRSLLRPLGLRTMSQG·····SARRPRPSKDPLRHLRTREKRGP··GPGGPNTVYLQVVA MKMLFFGIKVSRHLISSTSCLFKDNNEELLESIKERIARNRRILQKHSSSHLKAREVNASISNLRQSMAAVQKKQKAAHBPPANS·IVNIPSQVSIEWLG MENNEATNGSKSSNSFVFNKRRARGFDITDKKKRNLERKSQK·LNPTNTIAYAQILLG	AGSRDSGAALYÜFSEFNR. YÜFN GENGVORLMORHKLIKVARLIDNIFILT. RINHWSNVGGLISCHTLTLKETGLPK. CVLISGPPOLEKYL. BAIKIIF AGGRDAGAALYUFSEYNR. YUFN GENGVORLMORHKLIKVARLIDNIFILT. RINHWSNVGGLICCHTLTLKETGLPK. CVLISGPPOLEKYL. BAIKIIF N.GTGLLRACFILLRTPLKT. YINFN OPRINACRFLWOLRIRSSSVVDLIFIT. SANWDNIAGIISSILLIS. KESNALS. TRLHGAMNIKHFL. ECIRPFQDSD TGMDTQDTSSSVLLFFDKQRFTFNAGGLQRFCTEHKIKLSKIDHVFLS. RVCSETAGGLPGLLLTLAGIGEBGLSVNVWGPSDLNYLV. DAMKKSFIPRA PTSDTKHPLLLVVQSAHGEKYRFGKIGGGCSQRSLTENKIRISKLKDIFFLTGBLNWSDLIGGLPCMILTTAGIGEBGLSVNVWGPSDLNYLVSTWRYFRVFRF	SGPLKGIBLAVRPHSAPEYEDBTMTVYQIPIHSEQRRGKHQPWQSPERPLSRLSPBRSDSGSAEN.GQCPPLP SGPLKGIBLAVRPHSAPEYKDETMTVYQVPIHSERRCGKQQPSQSPRTSPNRLSPRQSSDSGSAEN.GQCPPLP AWVHTRSFGPSSTPDPIVLVNDEVVKISAIIPYTMBNYEDAGLKVTYIPKMFPKHAPTDRYDPSSDPHLN	··HGVSQRRGV·RDSSLVVAFICKLEILKRGNFLVLKAKEMGRPVGTAAIAPILIAAVKDGKSLF. HEGRETLAEELCTP····PDPGAAFVVVECP·DESF DSSAGANRKAWGRDPSLVVAFVCKLEILKRGNFLVLKAKELGLPVGTAAIAPILIAAVKDGKSLF. YBGRETLAEELCTP····PDPGLVFLVVECP·DEGF ·······KNV·KVNNVDIAFLIEMKEAARRIDTMKLMRELKVP·K·GP···LIGKLKSGRAVTLPDGRTIQPDQVFSSDKVBGDKPLL-LVTBCTTEDH· ··········ISVVYVCELPELGKFDLEKAKK·VFGVKPGPKYSRLQSGESVKS··DERDITVHPSDVMGP····SLPGPIVLLVDCPTESHA ·····VELPDLDAKVEVSTNYRESFSPVRGKFKVERAIKLGVP·K·GP···LFAKLTKGQTTTTLDNGIVVTPEQVLENER····HFAKVLFLDIPPDDLY	ÎOPICENATFORMOGKADAPVALVVERMADASVILVDSRMOGW MERFGEDTQ. HILTINENCASVHNI. RSHKIQTQÎNLIHPDIFPIL ILPICENDIFKRMOAETDAPVALAVHIAPESVILIDSRMOGW MERFGEDTQ. HILTINENCESVHNI. RSHKIQTQISLIHPDIFPIL VKALIDSSSLQPFILNGEKQLDYMVHISDDAVINTPTMRHI. MEKLINNPSITHILIINGGNPVIPAVESVYKHTRLÎLRSIAPSLFPAL ARLIKSLKSLESYMSSPDEQTIGAKFVNCIHHISPSSWTSSPTMOSW MKKKFHI. TQ. HILAGHQRFLPILLIVSHQKTVRKNMAFPILKASSKIAA LINAFVEKFKDMOCA.ELGMVYYFLGDEWITINDNIFRAFIDIFFKNNMGKWNH MISHNKISPNTISFRGSALTIKLKALMOV.NNYNLDKYTDRVFSKDF
	65 AC 57 AC 100 N 58 TC	155 · · · 147 · · · 193 · · · 108 · · · 108 · · · · · · · · · · · · · · · · · · ·	226 219 DE 238 203 181	317 100 322 VI 280 AM 266 LIN
ELAC2	ELAC2	ELAC2	ELAC2	ELAC2
Elac2	Elac2	Elac2	Elac2	Elac2
CE16965	CE16965	CEL6965	CE16965	CE16965
gi6850339	gi6850339	gi6850339	gi6850339	gi6850339
YKR079C	YKR079C	YKR079C	YKR079C	YKR079C
(HSA)	(HSA)	(HSA)	(HSA)	(HSA)
(MMU)	(MMU)	(MMU)	(MMU)	(MMU)
(CEL)	(CEL)	(CEL)	(CEL)	(CEL)
(ATH)	(ATH)	(ATH)	(ATH)	(ATH)
(SCE)	(SCE)	(SCE)	(SCE)	(SCE)

401 ···TSFRCKKEGPTLSVPMVQGECLIKVQLRPRREWQR·······················DTTLDCNTDERIVEAL····QLPNFQQSVQEYRRSAQDG··· 397 ···TSFYSKEEGSTLSVPTVRGECLIKVQLRPKREWQR···································	1 1 - Paparkr sqypriif. Lighesa ipmxirmusatiuvisp Dtsillidegegnrequertygo .udryightaavryshihadhantiinida 473 baparkr sqypriif. Lighesa ipmxirmusatiuvisp Dtsillidegegnrequertygo .udryightaavryshihadhantiinida 473 baparkr sqypriir Lighesa ipmxirmusa iriding sa vrrings sqsxxrnuysa ilinidas nsaiilidugegentigoikr rygedocxolivuninculinida hantiitalia 473 brenkrader it. Lighesa vrrings sqsxxrnuysa ilinida 58 nsaiilidugegentigoikr rygedoda bayr kiir cimishihadhantiita 456 rrabrika vrrings sqsxxrnuysa ilinida 58 cmiridegentigoikr rygedogentigoikr rygedogentigoik
401 · 397 · 407 · 374 RI	471
HSA) ELAC2 MMU) Elac2 CEL) CE16965 ATH) gi6850339 SCE) YKR079C	(HSA) BLAC2 (MNU) Blac2 (CBL) CB16965 (ATH) gi6850339 (SCE) YKR079C (HSA) BLAC1 (Ks_c) elaC (Syn_sp) gi2500943 (Me_t) gi2622965
(HK (M) (CE (AT	(HE)

FIG. 6A-2

FIG. 6B-1

FIG. 6B-2



DECADE OF BIRTH (AVERAGE AGE AT DIAGNOSIS)

FIG. 7

1920s - 1950s CAS	ES VS. DIVERGENT C	ONTROLS		
	OBSERVED	· · · · · · · · · · · · · · · · · · ·		
	CASES	CONTROLS		
00, 01, 02	372	139		
11, 12, 22	57 (13.3%)	9 (6.1%)	ODDS RATIO	2.4
			P-VALUE	0.026
00, 01, 11	387	143		
02, 12, 22	42 (9.8%)	5 (3.4%)	ODDS RATIO	3.1
v-, ·-,	12 (0.0.10)	(0.170)	P-VALUE	0.022
00.04	0.47	407		
00, 01	347	137		
02, 11, 12, 22	82 (19.1%)	11 (7.4%)	ODDS RATIO P-VALUE	2.9 0.001
			F-VALUE	0.001
1920s - 1950s CASI	ES VS. PEDIGREE UN	AFFECTEDS		
00, 01, 02	372	2151		
11, 12, 22	57 (13.3%)	220 (9.3%)	ODDS RATIO	1.5
,,	0. (101070)	220 (0.070)	P-VALUE	0.013
00 04 00	070	0454		
00, 01, 02	372	2151		
11	40 (9.3%)	170 (7.2%)	ODDS RATIO 11	1.4
12, 22	17 (4.0%)	50 (2.1%)	ODDS RATIO 12,22 P-VALUE	2.0 0.017
			TREND STATISTIC	8.09
			P-VALUE	0.004

FIG. 8

634 ···LEEFOTCLWRHCKHAFGCALVHT······SGWKWWYSGDTMP·CEALVRMGK······DATLLTHEATTEDGL······························ 667 ···LNDLISPPWWHCPQAYGVVIKAAERVNSVGEQILGWKWWYSGDSRP·CPETVEASR·······DATILIHEATFEDAL························ 660 ···IEYFQTCRAIHGDWAYSNSLITFR···MDENNEHNTFKWSWSGDTRPNIEKFSLEIGY······NSDLLIHEATLENQL··············	232 ···RGGRGLIPVFALGRAQELILLIDEYWQNHP···BLH··DIPIYY··387 388··VDYISFSAHADYQTSEFIRALJ··KPPHVILVHGEANEMMRLKQK 242 ···QGGRVLIPAFALGRAQELLLILDEYWANHP···DLH··NIPIYY··397 398··VHYISFSAHADYAQTSTFLKELJ··MPPNITILVHGEANEMMRLKQK 237 ···RGGRVLLPVFALGRAQEIMLILDEYWSQHAD··BLGGCQVPIFY··399 400··VEELSFRAHYDFQENLERIEKIJ··SAPNITILVHGQPSDIEDLTSL 216 ···KGRNILLPVPPLGLAQEILKLLRTHH······QFTGRQVNIMA··359 360··LEDYLLADHSDGRNTTQLIHNLJ··RPQHLVFVHGQPSDIEDLTSL 407 ···RGGKILLIPVFAVGRAQELMIVILBEYIRTGIIDEVPVYIDGMIME··570 571··KTIEGFSGHSDRRQLMBYVKRISPKPEKILLICHGDNYKTLDLASS	870 ···PHALVÜCGTYSTGK.EKÜFLATADVLGSKVGMSQEKYKTLQCLN··985 986··IYGTPPSERISSYLEMKRFVQWLT·KPQKTTPTVNVGTWKSRSTME 567 ···PKTLFLIGSYTIGK.ERLFLEVARVLREKIYINPAKIKLLECLG··685 686··RYEVPPSERISSFTELKEFVQKV··SPEVITPSVNNDGPDSAAANV 433 ···YRVLFLYGTYTTGK.EKHAIKTCEFKTKLFVMPNSVKFSMMLT··602 603··VFNVPSERISSFNDLVKRGCKLT··KCSEVTPTVNLNNLWKVRYMT	693 694 · BEBÄVEKTHSTITSQAISVGMRM · NAEFIMINHFSQR · YAKVPLF 736 737 · IEBÄLAKNHSTITKBAIDVGSAA · NVYRIVLITHFSQR · YPRKIPVI 728 729 · LEDAVKKKHCTINEAIGVSNKM · NARKLTITHFSQR · YPKIPQL
ELAC2 family	CPSF73 family (HSA) CPSF73 (ATH) gi6751699 (SCE) YSH1 (SYn_sp) gi2496795 (Ne_t) gi2622312	PS02 family	ELAC2 family
(HSA) ELAC2		(HSA) ha3611	(HSA) ELAC2
(ATH) gi6850339		(ATH) gi2979557	(ATH) gi6850339
(SCE) YKR079C		(SCE) PS02	(SCE) YKR079C

FIG. 9-2

		_			_					
		790	ر مرح/20%	200	í		i	1		1
		E) YKRO	MIC%		ı		ı	i	1	007
		(SCI	_ 		ı		j	ı	;	400
		339	%GAP		1			ı	0.0	100
) gi6850;	WSIW		ı	ı		1 5	100.0	710
		(ATH	₩		ſ	ſ		1 6	100.0	<u>ح</u>
	10	35	%GAP	1	1	1	0	2 2	7:17	714
	20170	30, LO (-		1		ı	1000	277) (43.0
	וויייייייייייייייייייייייייייייייייייי	1 2 2 2		į		1	100.0	20	2 0	7.0
	ç	7 V	ACH.	1	0	, ,	(S)	250	5 6	4.12
	III Flac	NO FIGO	MIDN/	i	100	2 2	4 5	46.0	43.0	2.27
	2		2	1	100.0	0	0.4.7	25.4	217	
A) ELAC2	Ņ	%GAP	C	2.0	, ∞:	7.) i	23.5	20.8	
	WSIM	1000	2 6	⊃: Ø	43.0	1 5	4/.U	41.0		
=	E)	Q %	1000	0 70	0'70	24.2	10	0.07	21.8	
_			·			_		_		ı

FIG. 10

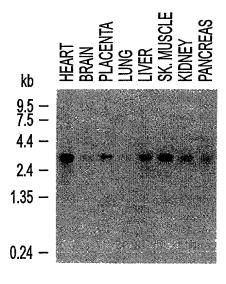


FIG. 11A

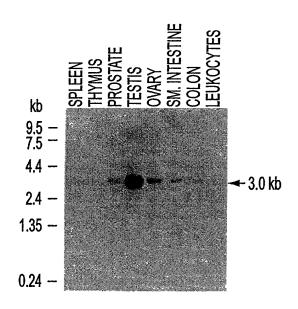


FIG. 11B



FIG. 11C



FIG. 11D

IVVILOVVAAGSRDSGAALYVPSEPNR	AGAALYVFSEIMRrilfNCGEGVQRLM	ILLRACFILRTPLK	ORFITPINAGEGLORFC	MFIFILLTHPISDIKHPLLLVQSAHGEKYFFGKIGRGSQRSU		KRSQYPBIIFLGT	BKRSQYPBIVFLGTK	KMDCBPPKLTFFGT	KIRRDDMEINILGT	ARKKKHVELITLEGIGSALPSKYRNVSTLVKVPFTDADGNTINRNIMLDAGENTIGTIHRMFSQLAVKSIFQDLKMIYLSH.LHADHHLGTTSVLNEWYK	[] []	턍	:	GVPTRNRNVSS. IALRLPQRABLWLFDCGBGTQHQP	MMEVITELGISSAVPSKNRNHIS. LALRIP. GELFLFD CGEGIOLOROM ALAGISPMKVITRIFITH. LHGDHILGITPGMIQSMGF	71 FFFF THE THE TAX TH
al segu 52	44	8 2	45	- -	f regio	475		480	479	460	11=His	,1	 1	943 1		
ELAC2, N-terminal sequences (HSA) ELAC2 52 SGGPN7	Elac2	CE16965	gi6850339	I KKU / 9C	ELAC2, His motif region	BLAC2	Elac2	CE16965	(ATH) gi6850339	YKR079C	, N-termina	ELAC1	Es_c) elac	(Syn_sp) gi2500943) gi262296E	
ELAC (HSA)	(MMD)	(CET)	(ATH)	(SCE)	ELAC2	(HSA)	(MMU)	(CET)	(ATH)	(SCE)	BLACI	(HSA)	ລີຂອ)	(Syn_	(Me_t	

FIG. 12



